Friday, 9/15/2006 12:00:09 PM Kim Johnston User: **Process Sheet** : SHAFT SLEEVE **Drawing Name** : CU-DAR001 Dart Helicopters Services Customer Job Number : 28618 **Estimate Number** : 11155 : D32337 **Part Number** : HIA P.O. Number S.O. No. : NA : D3233 REV B **Drawing Number** : 9/15/2006 This Issue : N/A Project Number Prsht Rev. NIA : MACHINED PARTS `: B Type **Drawing Revision** First Issue :NIA Material **Previous Run** Each: : 9/30/2006 20 Um: **Due Date** Qty: Written By Checked & Approved By : Est. A 05.03.14 New issue KJ/JLM Comment **Additional Product** Job Number: Description: **Machine Or Operation:** Seq. #: M1020TR1375W125 COLD DRAWN ROUND TUBE 1.0 Comment: Qty.: Total: 3.7191 f(s) 0.1860 f(s)/Unit 1020-1025 Round Tube Material: AISI 1020-1025 Seamless Round Tubing Cold Drawn per MIL-T-5066 or ASTM A513-00 MT1020 SRA or AMS 5075 or AMS 5077 (M1020TR1.375W.125) Identify for D3233-7 Batch: M 2.0 Comment: CONV.LATHE Turn as per Dwg D3233 3.0 QC2 20 Comment: INSPECT PARTS AS THEY COME OFF MACHINE 4.0 20 Comment: SECOND CHECK CONVENTIONAL MILLING MACHINE 5.0 MILLING CONV. Comment: CONVENTIONAL MILLING MACHINE Deburr

# **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
Part No	·	PAR #: Fault Category: NO	R: Yes	No DQ	4:5	P Date: ⊴	09/20				

QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Annacial	A		
DATE	STEP	Section A	Initial Action Description Sign & Chief Eng Chief Eng Date			Section C	Approval Chief Eng	Approval QC Inspector		
NOTE: D	ate & initia	al all entries	1			1,	L	_		

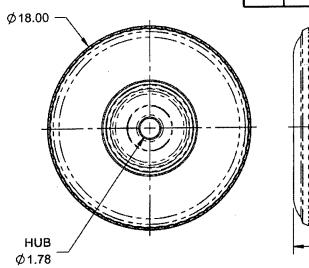
Date: Friday, 9/15/2006 12:00:09 PM Kim Johnston User: **Process Sheet** Drawing Name: SHAFT SLEEVE Customer: CU-DAR001 Dart Helicopters Services Job Number: 28618 Part Number: D32337 Job Number: Description: Seq. #: **Machine Or Operation:** INSPECT WORK TO CURRENT STEP 6.0 QC5 Comment: INSPECT WORK TO CURRENT STEP 20 PACKAGING 1 PACKAGING RESOURCE #1 7.0 Comment: PACKAGING RESOURCE #1 Identify and Stock 20 Location:\_ QC21 8.0 Comment: FINAL INSPECTION/W/O RELEASE 12 No. 09-20 Job Completion

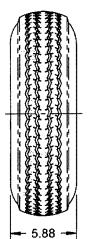
Dart Ae	rospace	e Ltd							
W/O:			W	ORK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	
					QA: N	/C Close	d:	_ Date: _	
NCR:			WORK ORD	ER NON-CONFORMAN	ICE (NCR	2)		148	
		Description of NC	Corrective Action Section B			Verification Approv	Approval	ıl Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector	
<u>.                                    </u>									

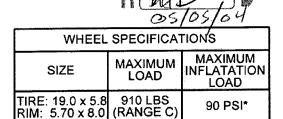
NOTE: Date & initial all entries



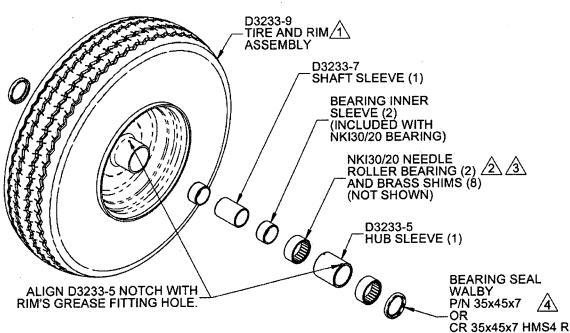
	DESIGN	13	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO, O	
	CHECK	ĘĎ	APPROXED	DRAWING NO.	REV. B
	-	牛	100	D3233	SHEET 1 OF 3
	DATE			TITLE	SCALE
	05.03.08		3.08	WHEEL ASSEMBLY	1:1
•	Α	05.02.18		NEW ISSUE	
	В	05.03.08		ADDED BEARING SEALS	







\* MANUFATURER'S RECOMENDATIONS ARE 75 PSI FOR HIGH SPEED USE.



### NOTES:

1) POSSIBLE SUPPLIER: McMASTER-CARR, P/N 8353T74 2) POSSIBLE SUPPLIER: GENERAL BEARING

3) PRESS FIT NEEDLE ROLLER BEARINGS INTO RIM HUB WITH

(4) 0.5 X 0.75 X 0.004 BRASS SHIMS PER BEARING, (1) AT EACH QUADRANT.

WORK ORDER

5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

6) ALL DIMENSIONS ARE IN INCHES

ENGINEERING UNCONTROLLED COPY

SHOP COPY

RETURN TO

P/N 13927

(2 PLACES)

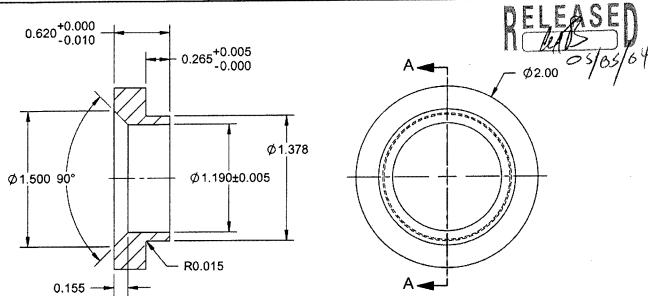
SUBJECT TO AMENDMENT

## COPYRIGHT © 2005 BY DART AEROSPACE LTD.

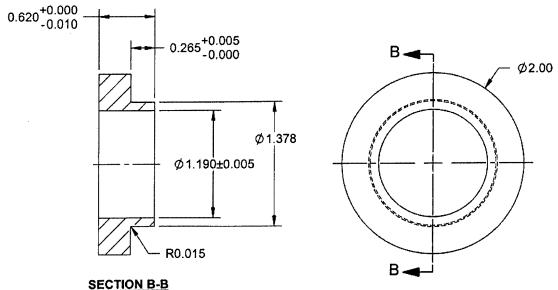
D3233-041 WHEEL ASSEMBLY



_				
	DESIGN	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO,	
	CHECKED	AMPROVED	DRAWING NO. D3233	REV. B
	13	VIII		SHEET 2 OF 3
	DATE		TITLE	SCALE
1	05.	.03.08	WHEEL ASSEMBLY	1:1



#### **SECTION A-A D3233-1 INSIDE WASHER**



# **D3233-3 OUTSIDE WASHER**

SHOP COPY RETURN TO ENGINEERING

#### **NOTES:**

- 1) MATERIAL: AISI 1020-1025 ROUND TUBING PER MIL-T-5066 OR ASTM A513-00 CONTROLLED COPY

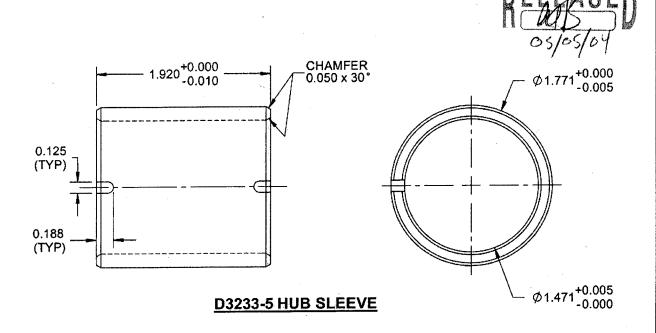
  MT1020 SRA OR AMS 5075 OR AMS 5077, COLD DRAWN, SEAMLESS
  (REF. DART SPEC. M1020TR)

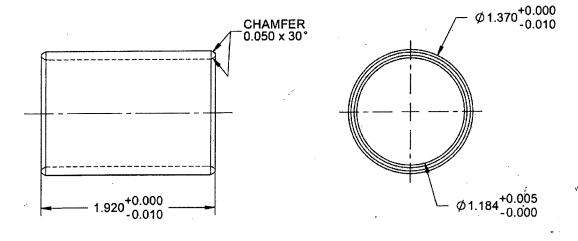
  2) FINISH: POWDER COAT FIRE RED (REF. 4.3.5.10) PER DART QSI 005 4.3
  WITHOUT NOTICE
  3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
  4) ALL DIMENSIONS ARE IN INCHES
  5) BREAK ALL SHARP EDGES 0.005 TO 0.010

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DESIGN	DRAWN BY	DART AEROSPA	
CHECKE	APPROVE	DRAWING NO. D3233	REV. B SHEET 3 OF 3
DATE	05.03.08	WHEEL ASSEMBLY	SCALE 1:1





# D3233-7 SHAFT SLEEVE

SHOP COPY

RETURN TO

**ENGINEERING** 

NOTES: 1) MATERIAL: AISI 1020-1025 ROUND TUBING PER MIL-T-5066 OR ASTM A513-00 NTROLLED COPY

MT1020 SRA OR AMS 5075 OR AMS 5077, COLD DRAWN, SEAMLESS
(REF. DART SPEC. M1020TR)

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
3) ALL DIMENSIONS ARE IN INCHES
4) BREAK ALL SHARP EDGES 0.010 TO 0.030

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DART AEROSPACE LTD	Work Order:	28618
DART ABROOM TO BE STORY		
Description: SHAFT Seeve.	Part Number:	D3233-1
		2
Inspection Dwg: D3283 \ Rev: 8		Page 1 of 1

# FIRST ARTICLE INSPECTION CHECKLIST

X	First Article	X	Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1,920	4.000	1,918	V	4 4 .		
1.370	4.000	1.366	<b>✓</b>			
1,184	4,005	1.184	<u> </u>	".		
.050 X30°	±.010	<i>,05</i> 0×35°				
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Measured by:	Audited by:	J.L.	Prototype Approval:	
Date: 06/09/18	Date:	06/09/18	Date:	
			<u></u>	

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	